

## Abstract

The present invention provides for a method for optimizing the sequence of passive filter configuration in optical mux/demux devices for Wavelength Division Multiplex transmission systems and optical passive filter system obtained with that method, in which the optimization is obtained by taking care of the attenuation profile of the transmission optical fiber, and the variations of the spectral loss profile. The optimizing method permits to select the filter sequence maximizing the minimum span length of the network.